Read this manual before using product. Failure to follow instructions and safety precautions can result in serious injury, death, or property damage. Keep manual for future reference.
This product has been designed and constructed according to general engineering standards\(^a\). Other local regulations may apply and must be followed by the operator. We strongly recommend that all personnel associated with this equipment be trained in the correct operational and safety procedures required for this product. Periodic reviews of this manual with all employees should be standard practice. For your convenience, we include this sign-off sheet so you can record your periodic reviews.

<table>
<thead>
<tr>
<th>Date</th>
<th>Employee Signature</th>
<th>Employer Signature</th>
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</tbody>
</table>

\(^a\) Standards include organizations such as the American Society of Agricultural and Biological Engineers, American National Standards Institute, Canadian Standards Association, International Organization for Standardization, and/or others.
# TABLE OF CONTENTS

1. **Introduction** ......................................................................................................................................................... 5

2. **Safety First** ............................................................................................................................................................ 7
   2.1. General Safety .................................................................................................................................................... 8
   2.2. Assembly Safety .................................................................................................................................................. 9
   2.3. Transport & Placement Safety ....................................................................................................................... 9
   2.4. PTO Safety .......................................................................................................................................................... 10
   2.5. Hydraulic Safety ................................................................................................................................................ 10
   2.6. Operational Safety ........................................................................................................................................... 10
   2.7. Maintenance Safety ........................................................................................................................................ 12
   2.8. Safety Decal Locations .................................................................................................................................. 12
       2.8.1. Decal Installation ........................................................................................................................................ 12
       2.8.2. Decal Locations ........................................................................................................................................ 12

3. **Assembly** .............................................................................................................................................................. 15
   3.1. Tubes & Flighting .............................................................................................................................................. 15
   3.2. Track Shoe & Track Stop .................................................................................................................................. 16
   3.3. Intake Hitch ....................................................................................................................................................... 18
   3.4. Multi-Stage Driveshaft ..................................................................................................................................... 18
   3.5. Shaft Drive Gearbox ......................................................................................................................................... 19
   3.6. Driveshaft Shield ............................................................................................................................................. 20
   3.7. Discharge Spout ............................................................................................................................................... 21
   3.8. Truss ................................................................................................................................................................. 21
   3.9. Transport Undercarriage ................................................................................................................................ 24
   3.10. Lift Cylinders & Cable .................................................................................................................................... 27
   3.11. Hydraulic Hose Attachment .......................................................................................................................... 29
   3.12. PTO Driveline .................................................................................................................................................. 30
   3.13. Upper Housing Lubrication ............................................................................................................................ 30

4. **Transport & Placement** ........................................................................................................................................... 31
   4.1. Transport Procedure ....................................................................................................................................... 31
   4.2. Placement Procedure ...................................................................................................................................... 32

5. **Operation** .............................................................................................................................................................. 35
   5.1. Pre-Operational Checklist .............................................................................................................................. 35
   5.2. Auger Drive & Lockout Procedure .................................................................................................................. 35
   5.3. Operating Procedure ........................................................................................................................................ 36
       5.3.1. Start-Up & Break-In .................................................................................................................................. 36
       5.3.2. Operating With A Full Load .................................................................................................................... 36
       5.3.3. Shutdown ................................................................................................................................................ 37
       5.3.4. Lowering & Completion .......................................................................................................................... 38

6. **Maintenance & Storage** ........................................................................................................................................... 39
   6.1. General Maintenance Procedures .................................................................................................................. 39
   6.2. General Storage Procedures .......................................................................................................................... 40
# TABLE OF CONTENTS

7. Troubleshooting ................................................................................................................. 41

Warranty .................................................................................................................................. 43
1. Introduction

Congratulations. As the new owner of a grain auger, you will be working with equipment designed to complement and improve your farming operation. Before using this auger, please read this manual and all safety labels and familiarize yourself with the various features of the machine and the necessary precautions for efficient and safe operation.

In addition, anyone using this auger is required to comply with all safety precautions in this manual and in safety labels attached to the auger. A sign-off form is supplied on the inside front cover to record your safety reviews.

Thank you.

<table>
<thead>
<tr>
<th>Serial Number:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial number is found on the right at the top of the lower tube.</td>
<td></td>
</tr>
</tbody>
</table>
1. INTRODUCTION

WESTFIELD - GRAIN AUGERS
W130 - 51'/61'/71' PTO-SD
2. Safety First

The Safety Alert symbol to the left identifies important safety messages on the product and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety messages.

Why is SAFETY important to you?

Three big reasons:

- Accidents disable and kill.
- Accidents cost.
- Accidents can be avoided.

SIGNAL WORDS

Note the use of the signal words **DANGER, WARNING, CAUTION, and NOTICE** with the safety messages. The appropriate signal word for each message has been selected using the definitions below as a guideline.

The Safety Alert symbol means ATTENTION, BE ALERT!, YOUR SAFETY IS INVOLVED.

<table>
<thead>
<tr>
<th>DANGER</th>
<th>Indicates an imminently hazardous situation that, if not avoided, will result in serious injury or death.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="DANGER Icon" /></td>
<td></td>
</tr>
</tbody>
</table>

| WARNING | Indicates a hazardous situation that, if not avoided, could result in serious injury or death. |
|---------|-------------------------------------------------------------------------------------------------
| ![WARNING Icon](image) |

<table>
<thead>
<tr>
<th>CAUTION</th>
<th>Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="CAUTION Icon" /></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NOTICE</th>
<th>Indicates a potentially hazardous situation that, if not avoided, may result in property damage.</th>
</tr>
</thead>
</table>
2.1. GENERAL SAFETY

Important: The general safety section includes instructions that apply to all safety practices. Any instructions specific to a certain safety practice (e.g., assembly safety), can be found in the appropriate section. Always read the complete instructional sections and not just these safety summaries before doing anything with the equipment.

YOU are responsible for the SAFE use and maintenance of your equipment. YOU must ensure that you and anyone else who is going to work around the equipment understands all procedures and related SAFETY information contained in this manual.

Remember, YOU are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program.

• It is the equipment owner and the operator's responsibility to read and understand ALL safety instructions, safety decals, and manuals and follow them before assembling, operating, or maintaining the equipment. All accidents can be avoided.

• Equipment owners must give instructions and review the information initially and annually with all personnel before allowing them to operate this product. Untrained users/operators expose themselves and bystanders to possible serious injury or death.

• Use this equipment for its intended purposes only.

• Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety, and could affect the life of the equipment. Any modification to the equipment voids the warranty.

• Do not allow children, spectators, or bystanders within the work area.

• Have a first-aid kit available for use should the need arise, and know how to use it.

• Provide a fire extinguisher for use in case of an accident. Store in a highly visible place.

• Wear appropriate protective gear. This list includes, but is not limited to:
  • a hard hat
  • gloves
  • protective shoes with slip-resistant soles
  • protective goggles
  • hearing protection

• For Powered Equipment: before servicing, adjusting, or repairing powered equipment, unplug, place all controls in neutral or off position, stop the engine or motor, remove ignition key or lock out power source, and wait for all moving parts to stop.
Follow good shop practices:
- keep service area clean and dry
- be sure electrical outlets and tools are properly grounded
- use adequate light for the job at hand
- Think SAFETY! Work SAFELY!

2.2. ASSEMBLY SAFETY

Read through the instructions to get to know the sub-assemblies and hardware that make up the equipment.

Do not take chances with safety. The components are large, heavy, and can be hard to handle. Always use the proper tools, stands, jacks, and hoists for the job.

Always have 2 or more people assembling the equipment. Because of the weight, do not attempt assembly alone.

2.3. TRANSPORT & PLACEMENT SAFETY

Transport auger in full down position with slight tension on cable.

Properly place hitch pin and securely attach safety chain. Use a type of hitch pin that will not allow auger to separate from towing vehicle.

Always attach an SMV (slow moving vehicle) sign before transporting auger. Equip the auger with the necessary lights for transportation where required by law. Always use hazard warning flashers on the tractor/towing vehicle when transporting unless prohibited by law.

Always travel at a safe speed, never exceeding 15 mph (24 km/hr). Reduce speed on rough surfaces and be cautious when turning corners or meeting traffic.

Before raising/lowering/moving the auger, make sure the area around the auger is clear of obstructions and/or untrained personnel. Never allow anyone to stand on or beneath auger while transporting or placing auger.

Do not transport auger on slopes greater than 20°.

Wheels must be free to move when raising or lowering auger.

Never attempt to move auger manually. To do so will result in serious injury.
• Before moving auger, check for overhead obstructions and/or electrical wires. Electrocution can occur without direct contact.
• Disconnect PTO driveline from tractor before moving auger or tractor and secure in transport saddle (where applicable).

2.4. PTO SAFETY

• Never use a PTO driveline without a rotating shield in good working order.
• Ensure PTO driveline is securely attached at both ends before operating.
• Before starting tractor, turn power to PTO to the off position (where applicable).
• Keep body, hair, and clothing away from rotating PTO driveline.
• Ensure the driveline shields turn freely on driveline.
• Do not exceed operating speed of 540 rpm.
• Keep u-joint angles small and equal. Do not exceed recommended operating length for PTO driveline.

2.5. HYDRAULIC SAFETY

• Wear proper hand and face protection when searching for hydraulic leaks. Escaping fluid under pressure can penetrate the skin, causing serious injury like gangrene. In case of accident, see a doctor immediately.
• Fluid leaks in the hydraulic lift cylinders or hoses will allow the auger to lower inadvertently. Repair all leaks and breaks immediately. Rupture could cause damage and/or personal injury.
• A hydraulic lift is faster than a conventional hand crank—always clear area of personnel before raising or lowering.
• Do not disconnect hydraulic couplers when hydraulic system is pressurized. For the correct procedure, consult this manual or your tractor manual.
• Relieve pressure before unhooking hydraulic lines.
• Inspect hydraulic fittings and hoses for damage on a daily basis. Repair if damaged.
• Ensure that the hydraulic line is properly connected and secure.
• Keep hydraulic line away from moving parts.
• Clean connections before connecting to equipment.

2.6. OPERATIONAL SAFETY

• Have another trained person nearby who can shut down the auger in case of accident. Always work with a second trained person around augers.
• Do not operate with any of the safety guards removed.
• Keep body, hair, and clothing away from moving parts. Stay away from intake during operation.
- Inspect lift cable before using auger. Replace if frayed or damaged. Make sure it is seated properly in the cable sheaves and that cable clamps are secure.
- Operate auger on level ground free of debris. If ground is uneven, anchor the auger to prevent tipping or upending.
- Augers are not insulated. Keep away from electrical lines. Electrocution can occur without direct contact.
- Support the discharge end and/or anchor the intake end before operating to prevent upending.
- Do not use auger as a hoist.
- Empty auger before raising or lowering.
- Lower auger at completion of operation or when not in use. Auger could drop rapidly in case of cable break or hydraulic failure (where applicable).

Figure 2.1
2.7. MAINTENANCE SAFETY

- Shut down and lock out all power before attempting maintenance of any kind. **If applicable**, disconnect PTO driveline from tractor or hydraulic hoses on units with hydraulic drive hoppers.
- After maintenance is complete, replace and secure all safety guards and safety devices, and if applicable, service doors and cleanout covers.
- Support auger tube before attempting maintenance on the undercarriage assembly. Auger should be in full down position for maintenance.
- Use only genuine Westfield replacement parts or equivalent. Replacement parts such as intake guards, pulley guards, PTO driveline shields, winches, and lift cables must meet ASABE standards or serious injury may result. Use of unauthorized parts will void warranty. If in doubt, contact Westfield or your Westfield dealer.
- Do not modify any auger components without authorization from Westfield. Modification can be dangerous and result in serious injuries.

2.8. SAFETY DECAL LOCATIONS

- Keep safety decals clean and legible at all times.
- Replace safety decals that are missing or have become illegible. See decal location figures below.
- Replaced parts must display the same decal(s) as the original part.
- Safety decals are available from your distributor, dealer, or factory.

2.8.1. DECAL INSTALLATION

1. Decal area must be clean and dry, with a temperature above 10°C (50°F).
2. Decide on the exact position before you remove the backing paper.
3. Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
4. Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
5. Small air pockets can be pierced with a pin and smoothed out using the sign backing paper.

2.8.2. DECAL LOCATIONS

Replicas of the safety decals that are attached to the equipment are shown below. Good safety requires that you familiarize yourself with the various safety decals and the areas or particular functions that the decals apply to as well as the safety precautions that must be taken to avoid serious, injury, death, or damage.

* Westfield reserves the right to update safety decals without notice. Safety decals may not be exactly as shown.*
WESTFIELD - GRAIN AUGERS
W130 - 51' 61'/71' PTO-SD

2. SAFETY FIRST

2.8. SAFETY DECAL LOCATIONS

Figure 2.2

WARNING

To prevent serious injury or death:
- Read and understand the manual before assembling, operating, or maintaining the equipment.
- Only trained personnel may assemble, operate, or maintain the equipment.
- Other personnel should be kept outside of the work area.
- If the manual, guards, or decals are missing or damaged, contact factory or dealer for replacements.
- Lock out power before servicing equipment.
- To prevent equipment collapse, suspect equipment failure while disassembling certain components.
- Electric motors must be grounded.
- Disconnect power before raising or lowering equipment.

DECAL #17096

NOTICE

To prevent damage to the equipment, wheels must be free to move when raising or lowering equipment.

DECAL #19960

WARNING

HIGH PRESSURE FLUID HAZARDS

High-pressure fluid can cause serious injury if it penetrates the skin. If this occurs, see a doctor immediately.
- Wear proper hand and eye protection, and use semi or full-hand gloves, when servicing for leaks.

DECAL #17698

DECAL #28615

To prevent serious injury or death:
- Keep away from rotating cable sheaves and cables.
- Inspect lift cable periodically; replace if damaged.
- Inspect cable clamps periodically; tighten if necessary.
2. SAFETY FIRST
2.8. SAFETY DECAL LOCATIONS

DECAL #17102
DANGER
ELECTROCUTION HAZARD
To prevent death or serious injury:
- When operating or moving, keep equipment away from overhead power lines and devices.
- Keep wet equipment below ground.
- This equipment is not insulated. Electrical shock can occur without direct contact.

DECAL #17103
DANGER
ROTATING PTO DRIVELINE HAZARD
To prevent serious injury or death:
- Keep body, hair, and clothing away from rotating PTO drivelines.
- Do not attempt to move equipment unless all drivelines,atic, and equipment wheels are in place and set in good working order.
- Make sure the driveline shields turn freely on drivelines.
- Make certain the driveline is securely attached at all connections.
- Do not exceed operating speed of 540 rpm.
- Keep working area small and clear. Do not exceed maximum recommended length for PTO drivelines.

DECAL #17113
WARNING
TRANSPORT HAZARD
To prevent serious injury or death:
- Securely attach equipment to vehicle with correct pin and safety chain.
- Use a low-speed vehicle to move equipment.
- Thoroughly reassemble & check all safety features.

DECAL #17098
DANGER
ROTATING AUGER HAZARD
To prevent serious injury:
- NED’ AWAY from rotating auger/ouer.
- Drain, service, or clean equipment in an open area.
- DO NOT operate the auger without all guards, doors, and covers in place.
- NEVER touch the auger/ouer. Use a stick or other tool to remove an obstruction from clean.
- Shut off and lock out power to adjust, service, or clean.

DECAL #17097
WARNING
UPENDING HAZARD
To prevent death or serious injury:
- Anchor/ouer and/or support discharge and/or prevent tipping.
- Auger intake end must always have boom weight. Do not release unit attached to boom or resting on ground.
- Do not raise auger/ouer above line of one height.
- Empty auger and fully lower intake end before moving.

Figure 2.3
3. Assembly

Warning: Before continuing, please reread the safety information relevant to this section at the beginning of this manual. Failure to follow the safety instructions can result in serious injury, death, or property damage.

Before beginning assembly, familiarize yourself with all the sub-assemblies and hardware making up the auger. Have all parts on hand and arrange them for easy access. Carry out assembly in a large open area with a level surface.

Important: Always have 2 or more people assembling the equipment. Because of the weight, do not attempt assembly alone.

Augers are available in various combinations. In most cases, the following instructions will apply to all augers. Where the assembly information varies, additional instructions will be included and will be indicated with an arrow.

3.1. TUBES & FLIGHTING

1. Position tube sections. Align tube sections on a flat surface or on a series of benches.

<table>
<thead>
<tr>
<th>Tube Length</th>
<th>Tube Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>51'</td>
<td>2 x 20' and 1 x 10' tube sections.</td>
</tr>
<tr>
<td>61'</td>
<td>3 x 20' tube sections</td>
</tr>
<tr>
<td>71'</td>
<td>3 x 20' and 1 x 10' tube sections.</td>
</tr>
</tbody>
</table>

**WARNING**

Do not drop. Damage to equipment or serious personal injury will result.

**Note:** When assembling more than 2 sections, start from spout end and work towards hopper.

2. Slide lower flight shaft onto upper flight shaft until flight ends butt together and flighting spiral matches up. Secure with hardware listed in table below. Repeat, if necessary, for any remaining flight shafts.
3. Slide tube sections together and secure. Make sure to align upper and lower track ends and then tighten bolts. Secure with hardware in table below.

**Important:** Track ends must align to allow track shoe to smoothly slide over track joint. Misalignment may cause jamming.

<table>
<thead>
<tr>
<th>Details for fasteners</th>
<th>For Flighting</th>
<th>Amt</th>
<th>For Tubes</th>
<th>Amt</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8” x 4-1/2” GR</td>
<td>8 bolts and locknuts</td>
<td>2</td>
<td>7/16” x 1-1/4” bolts and locknuts</td>
<td>12</td>
</tr>
</tbody>
</table>

**Figure 3.1**

**Figure 3.2**

### 3.2. TRACK SHOE & TRACK STOP

1. Slide the roller track shoe onto track with cable attach rod towards auger intake (Figure 3.3)

2. Attach the angle track stop as shown in Figure 3.4 with four 7/16” x 1-1/4” bolts and locknuts (see below for correct location, or refer to Figure 3.11).
3. Slide track shoe along full length of track to make certain there is no binding and that track ends properly align. The upper and lower tracks must align to allow track shoe to roll smoothly over this joint (Figure 3.2 and 3.3).

61': attach the flat iron track stop to the lower end of the track with two 7/16" x 1-1/4" bolts and locknuts. See Figure 3.11 for correct location.

### Auger Track Stop

<table>
<thead>
<tr>
<th>Auger</th>
<th>Track Stop</th>
</tr>
</thead>
<tbody>
<tr>
<td>51'</td>
<td>1st set of holes from top</td>
</tr>
<tr>
<td>61'</td>
<td>2nd set of holes from top</td>
</tr>
<tr>
<td>71'</td>
<td>3rd set of holes from top</td>
</tr>
</tbody>
</table>

**CAUTION**

Failure to locate trackstops in the proper holes can result in damage to auger and/or personal injury.
3.3. INTAKE HITCH

1. Clean dirt and paint from lower flight stub and intake bushing.
2. Attach intake hitch to lower auger tube and tighten securely.
3. Maintain 1/2" clearance between bushing and end of flight.
4. Attach clevis to intake hitch with clevis pin and gripclip.

![Diagram of intake hitch](Figure 3.6)

<table>
<thead>
<tr>
<th>Part</th>
<th>Size</th>
<th>Amt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake Hitch</td>
<td>7/16” x 1-1/4” bolt and locknut</td>
<td>8</td>
</tr>
<tr>
<td>Clevis Pin</td>
<td>3/4”</td>
<td>1</td>
</tr>
</tbody>
</table>

3.4. MULTI-STAGE DRIVESHAFT

Because some sections of the driveshaft are factory installed, please consult the table below for correct sequence before completing installation. Then proceed as follows:

1. Clean paint and dirt from driveshaft end and shaft connectors.
2. Slide shaft connector halfway onto the last pre-installed driveshaft segment.
3. Slip lower driveshaft segments through bearings on lower tube section. Install a Woodruff key, and slide into shaft connector.
4. Place a few drops of oil at each driveshaft bearing to allow for break-in.
5. Tighten all set screws on shaft connectors.

**Table 3.1 Multi-Stage Driveshaft Sequence**

<table>
<thead>
<tr>
<th>AUGER SIZE/LENGTH</th>
<th>SHAFT SIZE</th>
<th>DRIVESHAFT SEQUENCE FROM DISCHARGE END</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>FIRST</td>
</tr>
<tr>
<td>51'</td>
<td>1-1/2&quot;</td>
<td>20'</td>
</tr>
<tr>
<td>61'</td>
<td>1-1/2&quot;</td>
<td>20'</td>
</tr>
<tr>
<td>71'</td>
<td>1-1/2&quot;</td>
<td>20'</td>
</tr>
</tbody>
</table>
3.5. SHAFT DRIVE GEARBOX

These augers are equipped with chain couplers pre-installed on gearbox.
1. Remove chain and secure half the chain coupler to driveshaft using a 3/8” x 1-3/4” long square key.
2. Place gearbox assembly on auger tube leaving a minimum 1/8” clearance between chain connectors.
3. Re-install chain and adjust sprocket clearance to approximately 1/16”.
   Tighten set screw (Figure 3.7).

Important: Add EP90 lube oil the gearbox before operating auger. Failure to do so will void warranty. Do not overfill. Fill half full only. It is easier to fill oil into gear box when in flat position.

Figure 3.7
3.6. DRIVESHAFT SHIELD

Refer to Table 3.2 for the proper sequence for your particular auger. Shielding is installed working from the gearbox assembly up to the discharge end.

1. Attach drive shield to the shield mount with two 3/8” x 3/4” bolts and locknuts. Then attach to gearbox with two 5/8” x 1” bolts and lockwashers.
2. Attach the chain coupler guard to gearbox base with two 3/8” x 3/4” bolts and locknuts (Figure 3.7).
3. Place 42” driveshift shields against gearbox and over chain coupler guard, then secure with a shield strap and 2 self-tapping screws.
4. Position the driveshift shields according to Table 3.2, overlapping at bearing support brackets and at strap-on bearings where applicable. Fasten with shield straps and self-tapping screws. Do not tighten until all driveshift shields are positioned (Figure 3.8).

Table 3.2 Driveshaft Shielding Sequence

<table>
<thead>
<tr>
<th>STEP</th>
<th>51’ QTY</th>
<th>51’ LENGTH</th>
<th>61’ QTY</th>
<th>61’ LENGTH</th>
<th>71’ QTY</th>
<th>71’ LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>42”</td>
<td>4</td>
<td>42”</td>
<td>1</td>
<td>42”</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>48”</td>
<td>5</td>
<td>48”</td>
<td>5</td>
<td>48”</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>60”</td>
<td>1</td>
<td>60”</td>
<td>1</td>
<td>60”</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>48”</td>
<td>4</td>
<td>48”</td>
<td>4</td>
<td>48”</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>42”</td>
<td>1</td>
<td>42”</td>
<td>1</td>
<td>60”</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>48”</td>
</tr>
<tr>
<td>7</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>42”</td>
</tr>
</tbody>
</table>
3.7. DISCHARGE SPOUT

1. Attach discharge spout with two 7/16" x 1-3/4" bolts and locknuts (Figure 3.9).

3.8. TRUSS

See Figure 3.10 and Figure 3.11.

Note: Two 3/8” cable clamps are supplied to secure truss cables to the eyebolts as described below. All other applications require 5/16” cable clamps.

1. Fasten lower truss anchor to bracket.
   • use two 7/16” x 1-1/4” bolts and locknuts.

2. Fasten two truss support brackets to centre tube with two 7/16” x 1-1/4” bolts and locknuts each (see Figure 3.10 for correct placement).

   The 71’ auger requires a high truss support center bracket located between the two standard support brackets. Fasten with two 7/16” x 1-1/4” bolts and locknuts (see Figure 3.11 for correct placement).

3. Attach eyebolt to one end of truss cable with two 5/16” cable clamps. Insert eyebolt into lower truss anchor and thread on nut a short way.
   • use a 3/8” cable clamp.

4. Pull truss cable over truss support brackets, around upper truss anchor and back over truss support brackets to lower truss anchor, holding it loosely in place with one 5/16” cable clamp at upper truss anchor, and two 5/16” cable clamps at each truss support bracket.

Important: Do not tighten cable clamps at this time.

5. The upper end of augers equipped with truss cables should have an upward bow before being placed on the transport undercarriage (auger tube will straighten when fully assembled). Place supports under the discharge end until upward bow is correct.

<table>
<thead>
<tr>
<th>Auger Length</th>
<th>Upward Bow</th>
</tr>
</thead>
<tbody>
<tr>
<td>51'</td>
<td>2&quot;</td>
</tr>
<tr>
<td>61'</td>
<td>3&quot;</td>
</tr>
<tr>
<td>71'</td>
<td>5&quot;</td>
</tr>
</tbody>
</table>
6. Insert other end of truss cable through this eyebolt. Pull out all slack and secure with 2 cable clamps.
7. Tighten eyebolts to take remaining slack out of truss cable and to maintain the appropriate upward bow. After tension is adjusted, tighten cable clamps on truss support brackets and upper truss anchor. Check for proper side alignment.

Important: Once auger is fully assembled, adjust truss cables on all units (because of initial stretching). Cables may also require adjustment for side alignment.
Figure 3.11
3.9. TRANSPORT UNDERCARRIAGE

See Figure 3.12.

1. Fasten the lower reach arms to the axle with three 5/8” x 2” bolts and locknuts on each side.

2. Attach long tubular crossmember to bottom of large frame brackets with 5/8” x 1-1/2” bolts and locknuts (Figure 3.12).

3. Attach short channel crossmember loosely to small frame brackets with two 5/8” x 2” bolts and locknuts, sandwiching the flat braces (B) between short crossmember and small frame brackets on each side. Leave this way until you raise the discharge end.

4. **For 61’ and 71’ augers only:** Secure the tubing crossbraces to the welded lugs on the lower reach arms with four 1/2” x 1-1/4” bolts and locknuts, and a fifth one where the braces cross. Tighten securely.

5. Wheel hub assembly:
   a. Remove any dirt or paint from spindle and hub.
   b. Thoroughly pack wheel bearings and cups with a good grade of bearing grease.
   c. Place large bearing into hub and carefully tap in seal.
   d. Slip hub onto spindle and insert small bearing.

Figure 3.12

Figure 3.13
e. Tighten slotted spindle nut until hub drags slightly. Back off nut about 1/4 turn until hub turns freely.

f. Install cotter pin and dust cap.

**Note:** *Installing tires may not leave you with enough clearance to position and attach undercarriage once auger tube is raised. If so, install wheels after assembly is complete.*

g. Install tires and tubes on the rims provided. Inflate according to recommendation on tire side-wall. Wheels may be mounted on hubs at this time with six 1/2" x 1-3/4" wheel bolts.

6. Fasten upper lift arms to lower reach arms using two short spacer bushings (5/8" long), flat washers, and 1" x 3-1/2" bolts and locknuts. **Tighten securely.** Lift arms pivot on the spacer bushings (Figure 3.14).

7. Raise the discharge end of auger with a front end loader and a strong sling / chain or block and tackle. The height should be sufficient to clear undercarriage assembly.

![Figure 3.14](image)

**WARNING**

Do not remove tube support until assembly at end of Section 3.10. has been completed.

8. Position undercarriage beneath auger tube, then position stabilizer braces (A) as shown in Figure 3.15. Attach lower reach arms to bracket on tube with long spacer bushings (7/8" long), flat washers, and 1" x 3-1/2" bolts and locknuts. **Tighten securely.** Reach arms pivot on the spacer bushings.

**Important:** *Refer to Figure 3.11 for correct placement of lower reach arms.*

9. Fasten flat braces (B) to first set of holes (furthest from intake) on stabilizer braces (A) with one 5/8" x 2" bolt and locknut. Place one 5/8" x 1-1/2" bolt and locknut in other hole of stabilizer brace.
Important: 10. For 61' and 71' augers only: Attach the tubing crossbraces to the upper lift arms as shown in Figure 3.16.

- Slip tube clamps over the flat pressed ends of the lift arms (where they are attached to the frame), and loosely attach the tubing crossbraces using five 1/2" x 1-1/4" bolts and locknuts.
- Use a large c-clamp vise grip to squeeze and hold the tube clamps in position for attachment to the tubing crossbraces. Once in position, tighten these bolts.
11. Attach upper lift arms to track shoe. Use a short spacer bushing (5/8" long) and flat washer on both sides, insert the 1' x 10' bolt and **Tighten securely** with locknut (Figure 3.17).

12. Lower upper end of auger slowly until the roller track shoe rests against the track stop.

### 3.10. LIFT CYLINDERS & CABLE

**Note:** Determine right or left side of auger by standing at intake end facing top discharge end.

1. Position one of the lift cylinders to right side of welded brackets on lower end of auger tube (see Figure 3.11 for correct position). Attach with four 7/16" x 1-1/4" bolts and locknuts. Tighten securely.

**Note:** Cylinder must be positioned with ram end towards discharge end of auger.

2. Rotate the elbow fitting at lower end of lift cylinder so it faces down, making certain it is securely tightened (Figure 3.18).
3. Secure the solid connector end of the short cylinder connector hydraulic hose to above elbow fitting on right side lift cylinder. Use thread sealant (not supplied). The other end of this short hose is secured later.

4. Attach other lift cylinder to left side of welded bracket with four 7/16" x 1-1/4" bolts and locknuts. Tighten securely (see Figure 3.11 for correct position).

**Note:** Although the lift cables are factory installed on the lift cylinders, make certain the cable clamps at the cylinder are secure and the cables are properly seated in the cable sheaves before attaching the cable to the track shoe.

5. With both cylinders in full down position and track shoe resting against the track stop, thread both cables over the cable attach rod on the track shoe. Pull cable very tight then secure with three 5/16" cable clamps on each cable, positioned as shown in Figure 3.19. Tighten securely. Tie up excess ends of lift cable with tape or ty-wrap.

**Important:** Lift cables will stretch with use. Check frequently and adjust when necessary.

**CAUTION**

![Image](image_url)

Track shoe must rest against the track stop when adjusting cable.
Failure to heed will allow auger to raise higher than it is designed to lift, resulting in damage to auger and injury to personnel.

6. Attach the cable roller to the appropriate location with two 7/16" x 1-1/4" bolts and locknuts (Figure 3.20).
   - On the 61' auger, attach the cable roller to bracket located between lower end of track and lift cylinder (see Figure 3.11 for location).
   - On the 51'/71' augers, attach the cable roller to lower end of track (see Figure 3.11 for location).
3.11. HYDRAULIC HOSE ATTACHMENT

The elbow fittings are factory installed. Use thread sealant (not supplied) on fitting and hose threads.

1. With elbow fitting on left side lift cylinder facing back as shown, secure the tee fitting to the elbow fitting (Figure 3.18).

2. Securely attach the swivel connector end of the short hydraulic hose to tee fitting on left side cylinder as shown in Figure 3.18. Make certain that this short hose is beneath lift cable on left side lift cylinder as shown (Figure 3.21).

3. Securely attach the long hydraulic hose to tee fitting as shown in Figure 3.18. Place this hose into brackets welded to side of auger tube. Bend tops of these brackets over slightly to retain hose.

Important: *Protect hose ends from dirt.*

4. Recheck bolts for proper tightness on undercarriage, lift cylinders, and cable clamps. If secured as per instructions, remove auger tube support.
3.12. PTO DRIVELINE

1. Clean PTO driveline and flighting shaft ends of any paint or dirt.
2. Slide plain end of PTO driveline onto flighting shaft. Make sure the holes for
   the roll pin are lined up and square key is in place (where necessary).
   • use a 3/8” x 2” long square key; tighten set screws securely (Figure 3.7).

Important: Do not extend PTO driveline beyond 92” when in use.

3. Install transport saddle for the PTO driveline to auger tube about 3’ above the
   gearbox assembly. Secure with two 7/16” x 1-1/4” bolts and locknuts.

3.13. UPPER HOUSING LUBRICATION

Fill enclosed upper drive housing with grease.

2200 g 78 oz

For continuous use in extreme cold conditions, semi-fluid arctic grease or heavy
oil may be used.

3.14. PLASTIC MANUAL HOLDER

Before beginning installation, ensure that all
winch / auger lift controls are locked in place
and shut down and/or lock out auger.

1. Attach holder to the lower frame arms.
   Manual holder must be accessible at all
times, whether frame is up or down.
2. The manual holder cap must face up
   (towards the intake end). Attach manual
   holder with supplied zip ties. Tighten the zip
   ties, securing the holder in place.

Note: Where possible, attach the zip ties around a
frame brace tab to prevent the manual holder
from slipping down the lower frame arms.
4. Transport & Placement

**Warning**: Before continuing, please reread the safety information relevant to this section at the beginning of this manual. Failure to follow the safety instructions can result in serious injury, death, or property damage.

### 4.1. TRANSPORT PROCEDURE

Follow all safety precautions when transporting the auger and use a proper towing vehicle.

1. If auger is raised, place in full down position. The roller track shoe should be seated against the upper track stop with slight tension on the lift cable. Refer to “Lowering & Completion” on page 38.

2. Place and secure hitch pin and safety chain. The safety chain should be threaded through handle on the lower tube and wrapped around auger tube before attaching to the towing vehicle.

**Important**: *Use a type of hitch pin (see Figure 4.1) that will not allow auger to separate from towing vehicle.*

3. Disconnect PTO driveline from tractor and secure in transport saddle.

4. Beware of overhead obstructions and electrical wires and devices. The PTO-SD augers have minimum clearances of 13'0" to 15'6" (3.96 m to 4.72 m) in normal transport position.
5. Refer to “Transport & Placement Safety” on page 11 for important safety information before towing.

### CAUTION

If auger wheels are partially or fully buried in snow or grain, failure to clear area around the wheels before moving may cause damage to the auger or result in serious injury.

---

### 4.2. PLACEMENT PROCEDURE

1. Ensure towing hitch is in place and secure.

**Important:** Use a type of hitch pin (Figure 4.1) that will not allow auger to separate from towing vehicle.

2. Before raising or positioning auger, make sure that entire area in line of travel, both on the ground and overhead, is clear on any obstructions or electrical wires.

**CAUTION**

If auger wheels are partially or fully buried in snow or grain, failure to clear the area around the wheels before moving may cause damage to the auger or result in serious injury.

3. Ensure auger is on reasonably level ground when raising, lowering, or positioning.

**Important:** Make sure cable is properly seated in the cable sheaves on the lift cylinder and that cable clamps are secure.

**Important:** Wheels must be free to move when raising or lowering auger.

**Note:** The PTO driveline is non-separable. Remove from tractor and secure in transport saddle on auger before moving tractor away from auger.

**WARNING**

If auger wheels are partially or fully buried in snow or grain, failure to clear the area around the wheels before moving may cause damage to the auger or result in serious injury.

**WARNING**

Never attempt to increase height of auger by positioning wheels on lumber, blocks, or by any other means. To do so will result in damage to equipment and/or personal injury.

**Note:** Because of the varied types of tractor hydraulic systems, the quick-connect coupler is to be supplied by the owner. Please consult your tractor manual or your dealer for the proper coupler.
4. Before connecting the hydraulic hose, ensure that the quick connect couplers on auger and tractor are clean and free of dirt by wiping with a cloth.

**NOTICE**

Dirt in the hydraulic system can damage the cylinder o-rings causing leakage and the possible failure of the system.

5. After connecting hydraulic hose, visually check it for leaks, binding, flattening, kinks or wear.

**Important:** The 130 auger is elevated with two 4 inch single-acting hydraulic cylinders and cables. The following table lists the PSI required to raise specific auger sizes as determined by Westfield testing.

*These tests were conducted using a hydraulic pressure gauge (4000 PSI maximum rating) and are solely intended to be used as a guide. The PSI requirements for a specific auger may vary slightly. Should your auger require a significantly higher PSI to raise, contact either your dealer or Westfield.*

**Table 4.1**

<table>
<thead>
<tr>
<th>AUGER</th>
<th>PSI</th>
<th>KPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>130-51'</td>
<td>1400</td>
<td>9653</td>
</tr>
<tr>
<td>130-61'</td>
<td>1600</td>
<td>11032</td>
</tr>
<tr>
<td>130-71'</td>
<td>1800</td>
<td>12411</td>
</tr>
</tbody>
</table>

**CAUTION**

Do not disconnect hydraulic coupler when system is pressurized.

6. Approximate quantity of hydraulic fluid required to raise auger is as follows:

- W130-51'  12.4 litres
- W130-61'  15 litres
- W130-71'  18 litres
7. To raise auger check that the valve on hose to lift cylinders is open, raise the auger to desired height, and close hose valve.

**WARNING**

If hose valve remains open, a loss of hydraulic pressure within the tractor system will allow the auger to lower inadvertently, damaging equipment and/or causing personal injury.

Do not disconnect coupler under pressure. Relieve pressure and then disconnect.

Fluid leaks in the hydraulic cylinders or hoses will allow auger to lower inadvertently. Repair all leaks and breaks immediately.

8. Move the auger into working position slowly. Do not unhitch and attempt to move auger by hand.

9. Once auger is in position, chock wheels on both sides and apply the park brake on the tractor (or chock its wheels as well) to prevent movement during operation.

**Important:** When releasing auger from the towing vehicle, test the intake end for downward weight. Do not raise the intake end above drawbar height. When the intake end is elevated too high with auger in raised position, the balance of weight quickly transfers to the discharge end, causing it to upend. Ensure proper anchoring / support.

10. When operating auger in the raised position, rest the discharge end lightly on the bin roof, or tie to bin to prevent wind from toppling auger. When operating the auger in a freestanding position, anchor the intake end.

11. Anchor and/or support auger during operation.

   • When lower half of auger empties of grain, the weight balance transfers to upper end of auger, which can cause upending.

12. See “Completion / Clean Up” on page 42 for correct lowering procedure.

**CAUTION**

Do not use auger as a hoist to raise any object regardless of weight. This will create an unsafe condition and will void warranty.
5. Operation

Warning: Before continuing, please reread the safety information relevant to this section at the beginning of this manual. Failure to follow the safety instructions can result in serious injury, death, or property damage.

5.1. PRE-OPERATIONAL CHECKLIST

Before operating auger each time, the operator must confirm the following:

- All fasteners are secure as per assembly instructions.
- PTO driveline is connected and secure.
- PTO driveline shield rotates freely.
- Lift cable is not frayed or damaged.
- Lift cable is properly seated in cable sheaves.
- Cable clamps are secure.
- Tube alignment is reasonably straight.
- Auger wheels are chocked, and if necessary, tractor wheels are chocked or the parking brake has been engaged.
- Intake area and discharge spout are free of obstructions.
- Proper maintenance has been performed.

5.2. AUGER DRIVE & LOCKOUT PROCEDURE

<table>
<thead>
<tr>
<th>Drive Type</th>
<th>Before Operation</th>
<th>Lockout</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTO Driveline</td>
<td>Before starting, ensure:</td>
<td>Shut off tractor’s engine and remove key from tractor.</td>
</tr>
<tr>
<td></td>
<td>• PTO driveline is securely attached to the tractor and gearbox</td>
<td>• If removing key is impossible, remove PTO driveline from tractor.</td>
</tr>
<tr>
<td></td>
<td>• tractor park brake in engaged and/or wheels are chocked</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• you are not exceeding the maximum operating length of 92” (2337 mm) of the PTO driveline or maximum angle of 15°</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• PTO drive on the tractor is in the off position</td>
<td></td>
</tr>
</tbody>
</table>
5.3. OPERATING PROCEDURE

5.3.1. START-UP & BREAK-IN

1. Properly place auger and complete the pre-operational checklist at the beginning of this chapter. If everything is satisfactory, prepare for a 30-minute operation at half speed.

2. Correctly position portable grain hopper secure it to the auger with both straps (where applicable).

**Important:** Anchoring and/or support auger during operation. When lower half of auger empties of grain, the weight balance transfers to the upper end of auger, which can cause upending.

```
CAUTION
Do not start auger until area is clear of all unauthorized personnel.
Do not exceed 540 rpm on the PTO.
```

3. Start tractor and engage PTO driveline, then feed grain to auger. If auger functions normally, check at varying speeds for a period of 30 minutes.

**Important:** When starting auger for the first time, be prepared for an emergency shutdown in case of excessive vibration or noise. Note that auger may run rough until tube is polished.

4. Upon completion of initial run, shutdown auger (see section below for more information on shutting down your auger).

5. Lock out tractor and conduct a complete inspection of auger following the checklist at the beginning of this chapter.

After the initial start-up and inspection, the auger should be shut down and inspected at least three more times during the first 10 hours of operation.

Keep operation of empty auger to a minimum, as this results in excessive wear.

Once auger is broken in, the checklist should be a part of the daily routine before operating auger.

5.3.2. OPERATING WITH A FULL LOAD

1. When operating the auger, always work with a second person in a position to monitor the operation and initiate a shutdown in case of emergency.

2. Monitor the auger during operation for abnormal noises or vibrations.

3. Shut off all power before making adjustments, servicing, or clearing the machine.
**DANGER**

Rotating Flighting Hazard!

To prevent death or serious injury:
- Keep away from rotating auger flighting.
- Do not remove or modify auger flighting guards, doors, or covers. Keep in good working order. Have replaced if damaged.
- Do not operate the auger without all guards, doors, and covers in place.
- Never touch the auger flighting. Use a stick or other tool to remove an obstruction or clean out.
- Shut off and lock out power to adjust, service, or clean.

**USE OF GRAIN SPREADERS:** Many grain spreaders cannot handle the large capacity of some augers. Some augers plug, causing damage to the flighting and other drive components. This type of damage is not covered by warranty. Hints on how to avoid this...

- Get a larger spreader, if available.
- Remove the spreader.
- Make sure spreader is turned on.
- Center auger spout on spreader.
- Do not lower auger spout into spreader.
- Suspend the spreader from bin ceiling leaving extra room for excess grain to flow over the spreader.

**BIN LEVEL INDICATORS:** These augers are fast and bins fill up quickly. A full bin will cause auger to plug, which can damage the flighting and other drive components. Installing quality grain-level indicators on your bins will allow you to monitor bin filling and help prevent damage to your auger.

---

### 5.3.3. SHUTDOWN

**NORMAL SHUTDOWN:**

1. Near the end of a load, decrease auger speed until all grain is clear of machine.
2. When auger is clear of grain, disengage PTO drive.
3. Shut down and lock out tractor.

**EMERGENCY / FULL-TUBE RESTART:**

1. If the auger is shut down for an emergency, lock out tractor before correcting the problem.
• If the problem is plugging, clear as much of the grain as possible using a piece of wood, wet/dry vac, or other tool before restarting auger. **Do not reach in and use your hands** even if the tractor has been locked out.

2. If auger tube is full of grain, do not restart at full speed. Engage PTO at low rpm, gradually increasing power until normal operating speed is reached.

### NOTICE

Starting the auger when there is grain blockage will result in damage.

### 5.3.4. LOWERING & COMPLETION

After operation:

1. Clean entire work area.
2. Remove all supports and chocks.
3. Move auger out of working position and lower fully (see shaded box below for lowering procedure).
4. Move auger to the next work area or to a storage area and then clean out.

**LOWERING**

1. Disconnect driveline from tractor before lowering.
2. Ensure area beneath auger is clear.
3. Reconnect hose coupler to tractor, if disconnected.
4. Open hose valve.
5. Open tractor valve, feathering to prevent too rapid a descent.

**Important:** Once valves are opened, auger lowers by gravity. As the auger nears the full down position, the rate of descent will increase. Do not operate with tractor valve fully open.

Do not leave auger in raised position when not in use. Auger could drop rapidly due to a cable break. High winds may also upset auger.

5. Clean out auger.
   a. Shut off tractor engine and lock out power.
   b. Manually clean out grain with a piece of wood, vacuum cleaner, or other tool. Do not use hands.

6. Prepare for transport and placement or storage (see appropriate chapters for more information).
6. Maintenance & Storage

Warning: Before continuing, please reread the safety information relevant to this section at the beginning of this manual. Failure to follow the safety instructions can result in serious injury, death, or property damage.

### 6.1. GENERAL MAINTENANCE PROCEDURES

Please follow the guidelines below.

<table>
<thead>
<tr>
<th>Area</th>
<th>Maintenance</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>While auger is in use, observe the operation checklist in Operation section.</td>
<td>Daily</td>
</tr>
<tr>
<td>General</td>
<td>Check all operating, lifting, and transport components. Replace damaged or worn parts before using auger. For replacement instructions, see Assembly section.</td>
<td>Regularly</td>
</tr>
<tr>
<td>Lift Cable</td>
<td>Check and replace if frayed or damaged. Make sure cable clamps are secure.</td>
<td>Periodically</td>
</tr>
<tr>
<td>Wheel Hubs</td>
<td>Repack with lithium-based grease.</td>
<td>Every 2–3 years</td>
</tr>
<tr>
<td>Tire Pressure</td>
<td>Check with a pressure gauge. Pressure should be maintained according to side wall recommendations.</td>
<td>Monthly, or if it seems low</td>
</tr>
<tr>
<td>PTO Driveline</td>
<td>Lubricate both universal joints. Lubricate the center portion of the driveline (grease fitting is beneath shield) on a yearly basis.</td>
<td>After every 8 hrs of operation</td>
</tr>
<tr>
<td>Upper chain drive</td>
<td>Fill enclosed upper drive housing to plug level with grease. 2200 g (78 oz) For continuous use in extreme cold, semi-fluid arctic grease or heavy oil may be used</td>
<td>Regularly</td>
</tr>
<tr>
<td>Drive Chain Adjust-</td>
<td>Maintain 1/4” - 1/2” chain deflection. To adjust, loosen bolts on top bearing in the upper drive housing, adjust chain to proper tension, and re-tighten bolts</td>
<td>Regularly</td>
</tr>
<tr>
<td>Gearbox</td>
<td>Maintain oil level at half full (center of cross shaft) Gearbox should be level if checking or refilling, do not overfill</td>
<td>Regularly</td>
</tr>
<tr>
<td>Intake Bushing</td>
<td>Lubricate.</td>
<td>Daily</td>
</tr>
<tr>
<td>Hydraulic Hose</td>
<td>Using cardboard as a backdrop, check hose and coupler for leaks, wear, or damage. Replace if necessary.</td>
<td>Frequently</td>
</tr>
<tr>
<td>Cable Sheaves</td>
<td>Oil sheave pins on lift cylinder.</td>
<td>Twice a year</td>
</tr>
<tr>
<td>Truss Cables</td>
<td>Adjust to keep auger tube reasonably straight.</td>
<td>As necessary</td>
</tr>
</tbody>
</table>
6.2. GENERAL STORAGE PROCEDURES

TO PROTECT AUGER IN STORAGE DURING THE OFF-SEASON:

1. Lower the auger to full down position with slight tension on the cable.
2. Lubricate all grease fittings according to the maintenance procedure.
3. Inspect auger for damage and note any repairs required. Order replacement parts from your dealer.
4. Check tire pressure and inflate if necessary. See tire sidewall for recommendations.
5. Clean and re-lubricate spline on PTO driveline. Cover PTO driveline with plastic bag to protect it from the weather and place in the transport saddle.
6. Tow auger to storage area. Park and chock wheels.

CAUTION

Support discharge end of auger before removing or replacing any parts on the undercarriage.

TO PREPARE AUGER FOR USE AFTER STORAGE:

1. Check tire pressure and inflate if necessary. See tire sidewall for recommendations.
2. Tow auger to work site.
3. Remove cover from spline of PTO driveline and re-lubricate.
4. Check oil level in gearbox and refill if necessary (half full only).
5. Replace any damaged parts and decals.
6. Check and perform general maintenance before using auger.
7. Before raising auger after storage, make certain cable is in good condition, replacing it if frayed or damaged. Also make sure cable is properly seated in the cable sheaves on the lift cylinder and that cable clamps are secure.
8. On augers equipped with lubricated upper drive, check level annually and add as needed (fill to plug level).

Note: Use only genuine Westfield replacement parts or equivalent. Replacement parts such as intake guards, pulley guards, PTO driveline shields, winches and lift cables Must meet ASAE standards or serious injury may result. Use of unauthorized parts will void warranty. If in doubt, contact Westfield or your Westfield dealer. Do not modify any auger components.
### 7. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Excessive noise or vibration.</strong>&lt;br&gt; <em>Remember to follow proper break-in procedures—auger may run rough until tube is polished. If noise is extreme from outset or continuous after several loads of grade are fed, continue with troubleshooting below</em>*</td>
<td>Chatter from wooden bearings.</td>
<td>Spray penetrating lubricant between shaft and bearing surface. Bearings will break in over time. <em>If replacement of a bearing becomes necessary, split bearings are available to avoid having to slide all bearings off driveshaft.</em></td>
</tr>
<tr>
<td></td>
<td>Truss cables incorrectly adjusted.</td>
<td>Support end of auger and adjust cables so auger is flat or curves slightly upwards.</td>
</tr>
<tr>
<td></td>
<td>Flighting peeled back due to plugging.</td>
<td>Inspect spout end of auger for flight condition. Remove and replace flight sections as necessary.</td>
</tr>
<tr>
<td></td>
<td>Top drive inadequately lubricated.</td>
<td>Fill to appropriate level with grease. Top drive is not designed to be filled with oil.</td>
</tr>
<tr>
<td></td>
<td>Bent flighting sections.</td>
<td>Support auger and remove all flight sections. Check for straightness of flight stubs by rolling across flat concrete section. Straighten stub or replace as necessary. Take care not to bend flighting when reinstalling.</td>
</tr>
<tr>
<td></td>
<td>Obstruction in tube.</td>
<td>Visually inspect for cloth or trash wrapped around flighting, or buildup of gum from oily crops such as flax or canola.</td>
</tr>
<tr>
<td><strong>Shear bolts fail repeatedly.</strong></td>
<td>Incorrect shear bolt type.</td>
<td>Replace with correct part number. Westfield shear bolts are specifically designed to provide correct driveline protection.</td>
</tr>
<tr>
<td></td>
<td>Shear bolt hole worn out-of-round.</td>
<td>Frequent use of the incorrect shear bolt size can wear the mounting hole creating a &quot;scissor effect,&quot; which will require replacement of the affected parts.</td>
</tr>
<tr>
<td></td>
<td>Corn spreaders in bin unable to keep up with auger output.</td>
<td>Slow down auger or remove corn spreaders.</td>
</tr>
<tr>
<td></td>
<td>Flighting peeled back as a result of plugging.</td>
<td>Occurs when bin has overfilled, or corn spreaders restrict end of discharge. Inspect flighting at discharge end of auger. If necessary, replace flighting.</td>
</tr>
<tr>
<td></td>
<td>Driveline failure (bearing, gearbox, etc.).</td>
<td>See Maintenance section.</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible Cause</td>
<td>Remedy</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Premature wear on auger tubes.</td>
<td>Auger being run at low capacity or empty for extended period of time.</td>
<td>Frequently occurs on farms using grain wagons. Auger should not be left unattended when filling bins. Depending on application, a belt conveyor may be more appropriate.</td>
</tr>
<tr>
<td></td>
<td>Bent flighting.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flighting allowed to wear beyond normal point of replacement.</td>
<td>When flighting becomes razor-thin at intake, replacement is critical. Since flight material is double thickness at welded lap joints, high spots on flight occur and can accelerate spot tube wear.</td>
</tr>
<tr>
<td>Hydraulic lift settles out over time.</td>
<td>Shut off ball valve open.</td>
<td>Oil is leaking through tractor valve. Auger ball valve should be closed whenever set up at bin.</td>
</tr>
<tr>
<td></td>
<td>Shut off ball valve leaking.</td>
<td>Disconnect hose from tractor and check for leakage.</td>
</tr>
<tr>
<td></td>
<td>Lift cylinder cup seal leaking.</td>
<td>Observe if oil leaks from cylinder rod wiper seal (may not be visible on dual action cylinders). Remove and replace cup seal.</td>
</tr>
</tbody>
</table>
WARRANTY

Westfield Industries Ltd. warrants products of its manufacture against defects in materials or workmanship under normal and reasonable use for a period of one year after date of delivery to the original purchaser.

Our obligation under this warranty is limited to repairing, replacing, or refunding defective part or parts which shall be returned to a distributor or a dealer of our Company, or to our factory, with transportation charges prepaid. This warranty does not obligate Westfield Industries Ltd. to bear the cost of labor in replacing defective parts. Any defects must be reported to the Company before the end of the one year period.

This warranty shall not apply to equipment which has been altered, improperly assembled, improperly maintained, or improperly repaired so as to adversely affect its performance. Westfield Industries Ltd. makes no express warranty of any character with respect to parts not of its manufacture.

The foregoing is in lieu of all other warranties, expressed or implied, including any warranties that extend beyond the description of the product, and the IMPLIED WARRANTY of MERCHANTABILITY is expressly excluded.

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